

**Monday November 5**

- 9:00 *Opening*
- Chair: Michal Horáček*
- 9:05 **PL1 Hansjörg Grützmacher**  
LOW VALENT MONO AND DINUCLEAR METAL OLEFIN COMPLEXES  
IN CATALYZED HYDROGENATION/DEHYDROGENATION REACTIONS
- 10:05 **Op01 Michał Dąbrowski, Karol Grela**  
IN QUEST FOR SELECTIVITY: AN OLEFIN METATHESIS CATALYST BEARING  
UNSYMMETRICAL PHENANTHRENE BASED NHC
- 10:25-11:00 Coffee & Tea & Posters 1-28**
- 11:00 **Op02 Mariya V. Shamzhy, Valeryia I. Kasneryk, Yamini S. Avadhut,  
Maksym V. Opanasenko**  
INSIGHT INTO THE MECHANISM OF POST-SYNTHESIS Ge-FOR-Al  
ISOMORPHOUS SUBSTITUTION: CASE STUDY OF UOV ZEOLITE
- 11:20 **Op03 Yuyan Zhang, Martin Kubů, Michal Mazur, Jiří Čejka**  
ENCAPSULATED METAL NANOPARTICLES INTO ZEOLITE FRAMEWORK  
THROUGH SWELLING
- 11:40 **Op04 Yong Zhou, Maksym Opanasenko**  
ISOMORPHOUS INCORPORATION OF ALUMINUM INTO ISORETICULAR  
ZEOLITES: PORE SIZE EFFECT ON CATALYTIC ACTIVITY
- 12:00-14:00 Lunch**
- Chair: David Kubička*
- 14:00 **PL2 Radek Cibulka**  
PHOTOREDOX CATALYSIS WITH ORGANIC DYES AND VISIBLE LIGHT: THE WAY  
TOWARDS NEW CHEMICAL TRANSFORMATIONS
- 15:00 **Op05 Thomas Strassner, Felix Schroeter**  
CATALYSIS BY ANIONIC PALLADIUM SPECIES
- 15:20-16:00 Coffee & Tea & Posters 1-28**
- 16:00 **Op06 Bogdana Bashta, Jan Sedláček, Jiří Sokol, Alena Hašková, Lucie Havelková,  
Tomáš Faulkner, Jiří Brus**  
MICROPOROUS POLYMER NETWORKS DECORATED WITH ALDEHYDE AND  
AMINO GROUPS BY COMBINATION OF CHAIN-GROWTH POLYMERIZATION  
AND TEMPLATE APPROACH
- 16:20 **Op07 Lucie Obalová, Kateřina Pacultová, Anna Klegová, Kateřina Karásková,  
František Kovanda, Květuše Jiráťová**  
COBALT-CONTAINING MIXED OXIDE CATALYSTS FOR REMOVAL OF N<sub>2</sub>O FROM  
NITRIC ACID PLANT TAIL GASES
- 16:40 **KL Jan Přeck**  
SELECTIVE OXIDATION CATALYSIS OVER ADVANCED TITANOSILICATE  
CATALYSTS
- 18:30 Banquet in Vila Lanna**

**Tuesday November 6***Chair: Jan Přečh*

9:00 **PL03** **Nicolas Bats**  
FROM ZEOLITE POWDER TO INDUSTRIAL CATALYSTS OR ADSORBENTS :  
AN OVERVIEW OF THE SCALE-UP AND INDUSTRIALIZATION PROCESS

10:00 **Op08** **Edyta Tabor**, Mariia Lemishka, Kinga Mlekodaj, Stepan Sklenak,  
Zdeněk Sobalík, Jiří Dědeček  
BINUCLEAR TRANSITION METAL ION COMPLEXES IN ZEOLITES AS CENTRES  
FOR SELECTIVE OXIDATION OF HYDROCARBONS

**10:20-11:00** *Coffee & Tea & Posters 29-58*

11:00 **Op09** **Veronika Pashkova**, Kinga Mlekodaj, Mariia Lemishka, Edyta Tabor,  
Venceslava Tokarova, Petr Klein, Jiri Dedecek  
CONTROLLING AI ORGANIZATION IN SSZ-13 ZEOLITE

11:20 **Op10** **Kinga Mlekodaj**, Stepan Sklenak, Veronika Pashkova, Edyta Tabor, Petr Klein,  
Jiri Dedecek  
AI ORGANIZATION AND SITING OF DIVALENT CATIONS IN SSZ-13

11:40 **Op11** Mingxiu Liu, **Pengbo Lyu**, Ondřej Veselý, Pavla Eliášová, Lukáš Grajciar  
IDENTIFICATION OF ACTIVE SITES FOR TETRAHYDROPYRANYLATION IN MFI  
ZEOLITES

**12:00-14:00** *Lunch*

*Chair: Aleš Růžička*

14:00 **PL04** **Steven P. Nolan**  
GOLD-*N*-HETEROCYCLIC CARBENE MEDIATED CATALYSIS: AN ORGANIC AND  
INORGANIC ADVENTURE

15:00 **Op12** **Ondřej Bárta**, Ivana Císařová, Petr Štěpnička  
COMPARING THE PERFORMANCE OF FERROCENE PHOSPHONITRILE LIGANDS  
IN GOLD(I)-CATALYZED REACTIONS

**15:20-16:00** *Coffee & Tea & Posters 29-58*

16:00 **Op13** Oleg Kikhtyanin, Violetta Pospelova, Jaroslav Aubrecht, **David Kubička**  
EFFECT OF CALCINATION ATMOSPHERE ON THE HYDROGENOLYSIS ACTIVITY  
OF A COPPER-ZINC CATALYST

16:20 **Op14** **Swantje Lerch**, Thomas Strassner  
TRANSITION METAL-CATALYZED REACTIONS IN TUNABLE ARYL ALKYL IONIC  
LIQUIDS

16:40 **Op15** **Blažej Horváth**, Tomáš Soták, Dana Gašparovičová, Milan Hronec  
ONE-STEP EPOXIDATION OF PROPYLENE IN THE GAS PHASE

**17:00** *Closing*

**POSTERS Monday, November 5**

- Po01** **Jaroslav Aubrecht**, Violetta Pospelova, Josef Tomášek, David Kubička  
DEPENDENCE OF HYDROGENOLYSIS ACTIVITY OF CuZnAl CATALYSTS ON THEIR ALUMINIUM CONTENT
- Po02** Květa Jiráťová, **Jana Balabánová**, Kateřina Pacultová, Kateřina Karásková, Anna Klegová, Lucie Obalová  
ACTIVITY OF K-PROMOTED Co-Mn-Al MIXED OXIDE IN DIRECT DECOMPOSITION OF NO AND DEEP OXIDATION OF ETHANOL
- Po03** **Hynek Balcar**, Naděžda Žilková  
ADMET OLIGOMERIZATION OF  $\alpha$ -, $\omega$ -DIENES OVER HOVEYDA-GRUBBS-TYPE METATHESIS CATALYST ON MCM-41 AND SBA-15
- Po04** Lucie Bravencová, Petr Golis, Daniel Cvejn, Alexandr Martaus, Iveta Martausová  
REACTIONS OF SUPERNUCLEOPHILES WITH TITANOSILICATES AS CATALYSTS
- Po05** **Héctor De Paz Carmona**, Zdeněk Tišler, Jan Horáček  
MONOMETALLIC AND BIMETALLIC SUPPORTED CARBIDE CATALYSTS IN HYDROTREATING OF ATMOSPHERIC GASOIL AND ITS BLENDS WITH VEGETABLE OIL
- Po06** **Lada Dubnová**, Oleg Kikhtyanin, Rostislav Daňhel, Magdalena Zvolská, Lucie Smoláková, Libor Čapek, David Kubička  
THE EVALUATION OF SURFACE PROPERTIES OF RECONSTRUCTED HYDROTALCITES WITH DIFFERENT METALLIC CATIONS
- Po07** **Somayah F. Rastegar**, Galina Sádovská, Jaroslava Morávková, Radim Pilař, Petr Szazama  
BENZENE ALKYLATION WITH ETHYLENE AND TRANSALKYLATION OF DIETHYLBENZENE OVER Al-RICH BEA ZEOLITES
- Po08** **Barbora Fidlerová**, Michal Vávra, Iva Paterová, Eliška Vyskočilová, Libor Červený  
BETA-PINENE OXIDE ISOMERISATION USING LEWIS AND BRØNSTED ACIDS - PREPARATION OF MYRTENOL AND MYRTANAL
- Po09** Pavel Grussmann, Iveta Martausová, Daniel Cvejn, Alexandr Martaus  
LAYERED SILICATES AS NANOREACTORS IN THE ORGANIC REACTION CATALYSIS
- Po10** Luděk Kaluža, Květuše Jiráťová, Georgi Tyuliev, **Daniela Gulková**, Jana Balabánová, Radostina Palcheva, Martin Koštejn, Alla Spojakina  
THE NOVEL PREPARATION OF HYDROTREATING CATALYSTS USING MECHANOCHEMICAL ACTIVATION OF ALUMINUM NITRATE AND NIMO COMPLEXES
- Po11** **Martin Hájek**, Aleš Vávra, Alena Jílková, Karel Frolich, Jaroslav Kocík  
THE INFLUENCE OF VARIOUS PRECURSORS ON PROPERTIES OF Mg-Fe HYDROTALCITES AND MIXED OXIDES
- Po12** **Alena Hašková**, Lucie Havelková, Tomáš Faulkner, Jiří Brus, Martin Kubů, Jan Sedláček  
POLYMER CHEMISORBENTS WITH N-BENZYLIDENEANILINE GROUPS
- Po13** **Lucie Havelková**, Bogdana Bashta, Alena Hašková, Jiří Sokol, Tomáš Faulkner, Jan Sedláček, Eva Vrbková, Eliška Vyskočilová  
MICROPOROUS POLYACETYLENE NETWORKS WITH BASE GROUPS
- Po14** Blažej Horváth, Nikoletta Godová, Tomáš Soták, Dana Gašparovičová, Milan Hronec  
CATALYTIC CONVERSION OF ETHANOL INTO ALKENES AND ACETALDEHYDE
- Po15** **Pavol Hudec**, Michal Horňáček, Jozef Mikulec, Vladimír Jorík  
PREPARATION, CHARACTERISATION AND ADSORPTION TESTS OF Co-CONTAINING Mg-Al HYDROTALCITES FOR NSR-REACTION

- Po16** **Hua Chen**, Maksym Opanasenko  
PREPARATION AND CHARACTERIZATION OF FREE-STANDING ZEOLITE NANOCRYSTALS
- Po17** **Damian K. Chlebda**, Magdalena A. Chrzan, Roman J. Jędrzejczyk, Przemysław J. Jodłowski, Joanna Łojewska  
STUDY OF REACTION INTERMEDIATES OF METHANE CATALYTIC OXIDATION ON Pd/Al<sub>2</sub>O<sub>3</sub> AND Co/Pd/Al<sub>2</sub>O<sub>3</sub>
- Po18** **Artur Chołuj**, Wojciech Nogaś, Michał Patrzalek, Paweł Krzesiński, Anna Kajetanowicz, Karol Grela  
HETEROGENEOUS BOOMERANG EFFECT OF NEW BISTAGGED METATHESIS CATALYST IN MOF AND SBA-15 SUPPORT
- Po19** **Magdalena A. Chrzan**, Damian K. Chlebda, Ewelina K. Salamon, Przemysław J. Jodłowski, Joanna Łojewska  
INVESTIGATION OF BEHAVIOUR OF Pd, Fe, Co, CATALYSTS DURING METHANE COMBUSTION REACTION USING *in situ* FTIR SPECTROSCOPY
- Po20** Michaela Dvořáková, Jana Balabánová, Pavel Topka, František Kovanda, **Květa Jiráťová**  
Co-Mn MIXED OXIDE CATALYSTS SUPPORTED ON STAINLESS STEEL MESHES PREPARED BY HYDROTHERMAL METHOD
- Po21** **Luděk Kaluža**, Miroslav Zdražil  
PREPARATION AND RELATIVE ACTIVITY OF NIOBIA-SUPPORTED COMO HYDRODESULFURIZATION CATALYSTS
- Po22** **Kateřina Karásková**, Kateřina Pacultová, Anna Klegova, Tomáš Kiška, Dagmar Fridrichová, Lucie Obalová  
Co-Mg-Mn-Al MIXED OXIDE CATALYSTS MODIFIED BY POTASSIUM FOR DIRECT NO DECOMPOSITION
- Po23** **Dalibor Kaucký**, Jaroslava Morávková, Jana Pastvová, Radim Pilař, Petr Sazama  
HEXANE CRACKING OVER HIGH-CONCENTRATED ACID SITES Al-RICH BEA ZEOLITES
- Po24** **J. Kocík**, J. Kolena, Z. Tišler, L. Skuhrovcová  
Cu-Zn-Al CATALYSTS PREPARED BY DIFFERENT METHODS – THEIR COMPARISON IN GLYCEROL HYDROGENOLYSIS
- Po25** **Monika Kořenková**, Aleš Růžička, Libor Dostál  
REACTIVITY OF NCN-CHELATED STIBINIDENE AND BISMUTHINIDENE WITH UNSATURATED SUBSTRATES
- Po26** **Maria Kotova**, Radka Hrdličková, Eliška Vyskočilová, Libor Červený  
HYDROGENATION OF BUTYL SORBATE USING ORGANOMETALLIC COMPOUNDS
- Po27** **Vít Kremláček**, Aleš Růžička, Libor Dostál  
REACTIVITY OF C,N-ORGANOPHOSPHORUS(I) AND ORGANOARSENIC(I) SPECIES WITH UNSATURATED SUBSTRATES
- Po28** **Paweł J. Krzesiński**, Mariusz Milewski, Anupam Jana, Wojciech Nogaś, Michał Patrzalek, Anna Kajetanowicz, Karol Grela  
A NEW, BISTAGGED OLEFIN METATHESIS CATALYST AND ITS APPLICATION IN HETEROGENEOUS CATALYSIS

**POSTERS Tuesday, November 6**

- Po29** **Mariia Lemishka**, Edyta Tabor, Galina Sádovská, Milan Bernauer, Alena Vondrová, Petr Sazama, Jiří Dědeček, Zdeněk Sobalík  
IRON ZEOLITES FOR HIGH TEMPERATURE N<sub>2</sub>O DECOMPOSITION
- Po30** **Mariusz Milewski**, Anna Kajetanowicz, Karol Grela  
HIGHLY SELECTIVE SELF-CROSS METATHESIS OF TERMINAL OLEFINS CATALYZED BY MOF SUPPORTED RUTHENIUM CATALYST
- Po31** **Kinga Mlekodaj**, Veronika Pashkova, Milan Bernauer, Jiri Dedecek  
BUILDING BLOCKS IN THE SYNTHESIS OF SSZ-13
- Po32** **Jaroslava Morávková**, Radim Pilař, Dalibor Kaucký, Jana Pastvová, Petr Sazama  
EXCELLENT ACTIVITY OF Al-RICH Pt/H-\*BEA ZEOLITE IN HYDROISOMERIZATION OF N-HEXANE AMONG Al-RICH Pt/H ZEOLITES
- Po33** **Robert Mundil**, Jan Janoušek, Jan Merna  
SYNTHESIS OF END-FUNCTIONALIZED POLYETHYLENES
- Po34** **Wojciech Nogaś**, Paweł Krzesiński, Artur Choŭuj, Anna Kajetanowicz, Karol Grela  
DOES STYRENE PAVE THE WAY TO LOW COST INDUSTRIAL OLEFIN METATHESIS?
- Po35** Anna Klegova, Kateřina Pacultová, Kateřina Karásková, Tomáš Kiška, Dagmar Fridrichová, **Lucie Obalová**  
NO CATALYTIC DECOMPOSITION – TRANSIENT STATE EXPERIMENTS
- Po36** **Kateřina Pacultová**, Kateřina Karásková, Anna Klegová, Alexandr Martaus, Dagmar Fridrichová, Tereza Bílková, Lucie Obalová  
EFFECT OF CALCINATION TEMPERATURE OF K/Co<sub>4</sub>MnAlO<sub>x</sub> MIXED OXIDES ON DIRECT NO CATALYTIC DECOMPOSITION
- Po37** **Veronika Pashkova**, Kinga Mlekodaj, Mariia Lemishka, Venceslava Tokarova, Libor Brabec, Petr Klein, Jiri Dedecek  
MECHANOCHEMICAL PRE-TREATMENT FOR THE FACILITATION OF ZEOLITE SSZ-13 SYNTHESIS
- Po38** **Jana Pastvová**, Jiří Rathouský, Jaroslava Morávková, Libor Brabec, Vasile I. Parvulescu, Petr Sazama  
3D GRAPHENE-LIKE MICROPOROUS CARBONS SYNTHESIZED IN A USY ZEOLITE TEMPLATE WITH PLATINUM
- Po39** **Michał Patrzalek**, Aleksandra Zasada, Anna Kajetanowicz, Karol Grela  
NEW APPROCH TO TANDEM METATHESIS-KETOHYDROXYOXIDATION
- Po40** **Jakub Piątkowski**, Grzegorz Szczepaniak, Wojciech Nogaś, Anna Rusczyńska, Ewa Bulska, Karol Grela  
HIGHLY EFFICIENT AND TIME-SAVING PURIFICATION METHOD FOR OLEFIN METATHESIS REACTION
- Po41** **Radim Pilař**, Galina Sádovská, Dalibor Kaucký, Jana Pastvová, Morávková Jaroslava, Petr Sazama  
SYNTHESIS OF THE Al-RICH ZEOLITES OF \*BEA WITH CONTROLLED STRUCTURE
- Po42** **Violetta Pospelova**, Jaroslav Aubrecht, Josef Tomášek, David Kubička  
CHANGES IN STRUCTURE OF CuZn CATALYSTS INDUCED BY CALCINATION TEMPERATURE
- Po43** **Róbert Reiberger**, Jan Veselý  
SYNTHESIS OF MONOFUNCTIONAL AND BIFUNCTIONAL PCCP CATALYSTS

- Po44 Galina Sádkovská**, Jaroslava Morávková, Radim Pilař, Petr Sazama, Alena Vondrová  
ANALYSIS OF THE ACTIVE SITES AND EVALUATION OF Al-RICH M/M-oxo-BETA ZEOLITE IN SELECTIVE CATALYTIC REDUCTION OF NO<sub>x</sub>
- Po45 Ewelina K. Salamon**, Damian K. Chlebda, Magdalena Chrzan, Joanna Łojewska  
SYNTHESIS, ACTIVATION AND KINETIC STUDY OF COBALT- PALLADIUM CATALYSTS FOR THE CATALYTIC COMBUSTION OF METHANE
- Po46 Lada Sekerová**, Anna Gruberová, Eliška Vyskočilová, Libor Červený, Jan Sedláček  
EVALUATION OF ACIDITY OF POLYACETYLENE NETWORKS DECORATED WITH PENDANT ETHYNYL GROUPS
- Po47 Anatolij Sokolohorskyj**, Jaroslav Paták, Lenka Malinová, Jan Merna  
FUNCTIONALIZATION OF BRANCHED POLYETHYLENE WITH MALEIC ANHYDRIDE BY REACTIVE EXTRUSION
- Po48 Daniela Spustová**, Iveta Martausová, Daniel Cvejn, Alexandr Martaus, Jan Přeck  
CATALYTIC PROPERTIES OF TITANOSILICATES IN OXIDATION REACTIONS WITH HYDROGEN PEROXIDE
- Po49 Aleš Vávra**, Martin Hájek, Alena Jílková, Karel Frolich, Jaroslav Kocík  
USING OF Mg-Al AND Mg-Fe MIXED OXIDES IN TRANSESTERIFICATION IN FIXED-BED REACTOR
- Po50 Pavla Vondrová**, Zdeněk Tišler  
CATALYTIC TESTS OF ALDOL CONDENSATION OF FURFURAL AND ACETONE IN FLOW REACTOR
- Po51 Qiudi Yue**, Maksym Opanasenko  
SEEDED GROWTH OF METAL-INCORPORATED CHABAZITE AND ITS APPLICATION FOR GAS SEPARATION
- Po52 Jiří Zedník**, Sviatoslav Hladysch  
NICKEL CATALYZED GRIGNARD METHATHESIS POLYMERIZATION – PREPARATION OF HIGHLY REGIOREGULAR POLYTHIOPHENE-BASED CONJUGATED POLYELECTROLYTES
- Po53 Jin Zhang**, Ondřej Veselý, Michal Mazur, Maksym Opanasenko, Mariya Shamzhy  
ON THE FORMATION OF Al-SUBSTITUTED STAGE-STRUCTURED UTL-DERIVED ZEOLITES
- Po54 Tomáš Soták**, **Blažej Horváth**, Jana Bodišová, Dana Gašparovičová, Katarína Fulajtárová, Milan Hronec  
AQUEOUS PHASE REFORMING OF CELLULOSE IN THE PRESENCE OF TUNGSTEN BASED CATALYSTS
- Po55 Michal Horáček**, Jiří Pinkas, Martin Lamač, Vojtech Varga, Róbert Gyepes  
HYDROSILANE-B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub> ADDUCTS AS ACTIVATORS IN TRANSITION METAL CATALYTIC SYSTEMS
- Po56 Jan Jurka**, Jiří Pinkas, Michal Horáček, Naděžda Žilková, **Martin Lamač**  
HYDRODEHALOGENATION OF ORGANOHALIDES BY Et<sub>3</sub>SiH CATALYSED BY GROUP 4 METAL COMPLEXES AND B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>
- Po57 Maksim Samsonov**, Ales Ruzicka  
THEORETICAL AND EXPERIMENTAL STUDY OF RING-OPENING POLYMERIZATION OF L-LACTIDE CO-INITIATED BY SNOOPY-COMPLEXES OF GROUP 2 METALS
- Po58 Joanna. E. Olszówka**, Maria Lemishka, Kinga Mlekodaj, Edyta Tabor, Pavel Kubát, Jiří Dědeček  
A PHOTOLUMINESCENCE STUDY OF Zn-CONTAINING FERRIERITE